

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 March 2005 (24.03.2005)

PCT

(10) International Publication Number
WO 2005/027156 A3

(51) International Patent Classification⁷: **H01F 27/28**,
17/00, 19/04

(21) International Application Number:
PCT/GB2004/050011

(22) International Filing Date:
16 September 2004 (16.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0321658.7 16 September 2003 (16.09.2003) GB

(71) Applicant (for all designated States except US): **SOUTH
BANK UNIVERSITY ENTERPRISES LTD.** [GB/GB];
103 Borough Road, London, Greater London SE1 0AA
(GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ALFORD, Nell**,

McNeill [GB/GB]; Flat 3, 33 Compayne Gardens, London,
Greater London NW6 3DD (GB). **SALINAS FLORES,
Ener, Orlando** [PE/GB]; 201 Norwood Road, London,
Greater London SE24 9AF (GB). **DIMITRIOU, Stavros**
[GR/GB]; 15C Floyd Road, Charlton, London, Greater
London SE7 8AY (GB).

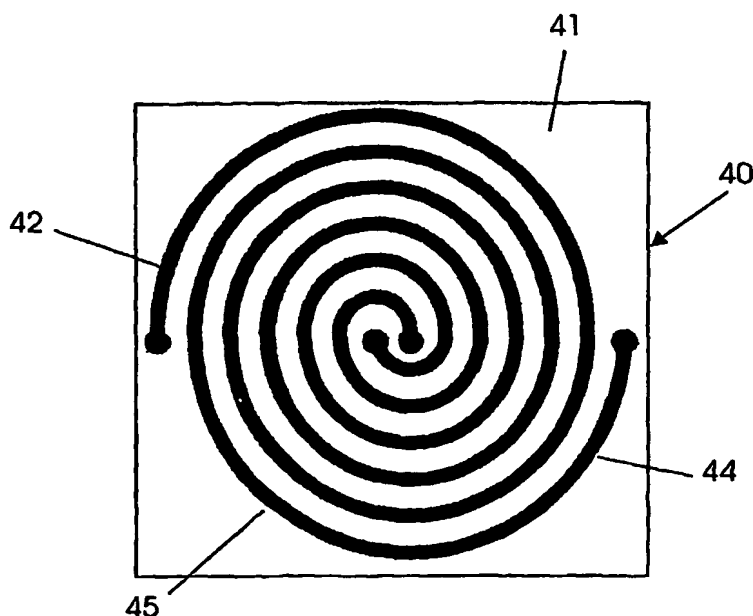
(74) Agent: **COHEN, Alan, Nicol**; 2 Grove Place, Tatsfield,
Westerham, Kent TN16 2BB (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: DSL MODEM AND TRANSFORMER



(57) Abstract: A digital subscriber line (DSL) modem (12, 14) comprising a line interface transformer (22) having a primary circuit for coupling to a transmission line and a secondary circuit for outputting a signal transmitted over said transmission line, each circuit being formed of a continuous electrically conductive material and in which the primary circuit and the secondary circuit are substantially parallel and are in substantially the same plane.



WO 2005/027156 A3



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

(88) Date of publication of the international search report:

12 May 2005

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.